

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **LISTING OF CLAIMS:**

- 5      1.     (Cancelled).
- 10     2.     (Currently amended) Crystalline oxcarbazepine, wherein the oxcarbazepine has having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 20.0, 23.0, 25.1 ± 0.2 degrees two-theta.
- 15     3.     (Original) The oxcarbazepine of claim 2 having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 17.7, 19.4, 20.0, 21.1, 23.0, 24.0, 24.4 ,25.1, 26.0 ± 0.2 degrees two-theta.
- 20     4.     (Original) The oxcarbazepine of claim 3 having a PXRD diffraction pattern substantially as depicted in figure 1.
- 25     5.     (Currently amended) A process for preparing the oxcarbazepine of claim 2 Form B comprising the steps of:
  - a)     preparing a solution of oxcarbazepine in a mixture of dichloromethane and toluene, and
  - b)     evaporating the toluene and the dichloromethane leaving the oxcarbazepine Form B as a residue.
- 30     6.     (Original) The process of claim 5, wherein the solution is prepared by dissolving oxcarbazepine in dichloromethane and adding the dichloromethane to toluene.
7.     (Currently amended) The Crystalline oxcarbazepine Form B having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 20.0, 23.0, 25.1 ± 0.2 degrees two-theta prepared by the process of claim 5.

8. (Currently amended) A process for preparing the oxcarbazepine of claim 2 Form B comprising the steps of:
- a) preparing a solution of oxcarbazepine in toluene;
  - b) heating the solution;
  - 5 c) cooling the solution at a rate of  $60^{\circ}\text{C min}^{-1}$  or above to cause formation of a precipitate; and
  - d) separating the precipitate.
9. (Original) The process of claim 8, wherein the solution is heated to about reflux.
- 10 10. (Original) The process of claim 8, wherein the solution is cooled to a temperature of about  $0^{\circ}\text{C}$ .
- 15 11. (Currently amended) The Crystalline oxcarbazepine Form B having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 20.0, 23.0,  $25.1 \pm 0.2$  degrees two-theta prepared by the process of claim 8.
12. (Cancelled).
- 20 13. (Currently amended) Crystalline oxcarbazepine, wherein the oxcarbazepine has a characterized by PXRD diffraction pattern with peaks at about 11.7, 21.7, 23.2,  $24.4 \pm 0.2$  degrees two-theta.
- 25 14. (Currently amended) The oxcarbazepine of claim 13 having a characterized by PXRD diffraction pattern with peaks at about 11.7, 17.0, 18.0, 21.7, 23.2,  $24.4, 26.0 \pm 0.2$  degrees two-theta.
15. (Currently amended) The oxcarbazepine of claim 14 having characterized by a PXRD diffraction pattern substantially as depicted in figure 2.
- 30 16. (Currently amended) A process for preparing the oxcarbazepine of claim 13 Form C comprising the steps of:
  - a) preparing a solution of oxcarbazepine in toluene;

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- b) heating the solution;
  - c) cooling the solution at a rate of from about 20 to 60°C min.-<sup>1</sup> to cause formation of a precipitate; and
  - d) separating the precipitate.

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17. (Original) The process of claim 16, wherein the solution is cooled at a rate of about 40°C per minute.

18. (Original) The process of claim 16, wherein the solution is cooled to about 0°C.

19. (Original) The process of claim 16, wherein the solution is heated to about reflux.

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20. (Currently amended) The Crystalline oxcarbazepine Form C having a PXRD diffraction pattern with peaks at about 11.7, 21.7, 23.2, 24.4 ± 0.2 degrees two-theta  
prepared by the process of claim 16.

21. (Cancelled).

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22. (Currently amended) Crystalline oxcarbazepine, wherein the oxcarbazepine has a characterized by PXRD diffraction pattern with peaks at about 11.7, 14.2, 24.3 ± 0.2 degrees two-theta.

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23. (Currently amended) The oxcarbazepine of claim 22 characterized by having a PXRD diffraction pattern substantially as depicted in figure 3.

24. (Currently amended) A process for preparing the oxcarbazepine of claim 22 Form D comprising the steps of:

- a) preparing a solution of oxcarbazepine in toluene; and
- b) evaporating the toluene leaving a residue of the oxcarbazepine Form D.

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25. (Original) The process of claim 24, further comprising a step of heating the solution before evaporating.

26. (Original) The process of claim 25, wherein the solution is heated to about reflux.
27. (Original) The process of claim 25, further comprising cooling the heated solution before evaporating.
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28. (Original) The process of claim 27, wherein the solution is cooled to about 0°C.
29. (Original) The process of claim 24, further comprising a step of cooling the solution.
- 10 30. (Original) The process of claim 29, wherein the solution is cooled to about 0°C.
31. (Original) The process of claim 24, wherein the toluene is removed from the solution by evaporation.
- 15 32. (Currently amended) The Crystalline oxcarbazepine Form D having a PXRD diffraction pattern with peaks at about 11.7, 14.2, 24.3 ± 0.2 degrees two-theta prepared by the process of claim 24.
33. (Original) An oxcarbazepine chloroform solvate.
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34. (Cancelled).
35. (Currently amended) An crystalline oxcarbazepine chloroform solvate, wherein the oxcarbazepine has characterized by a PXRD diffraction pattern with peaks at about
- 25 14.5, 15.0, 18.2, 21.4, 22.9, 24.0, 25.8, 26.0 ± 0.2 degrees two-theta.
36. (Currently amended) The oxcarbazepine chloroform solvate of claim 35, wherein the oxcarbazepine has characterized by a PXRD diffraction pattern substantially as depicted in figure 4.
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37. (Original) The oxcarbazepine chloroform solvate of claim 33 containing about a 27 weight % chloroform.
38. (Original) A process for preparing oxcarbazepine chloroform solvate comprising:

- 5        a) causing formation of a precipitate from a solution of oxcarbazepine in chloroform, and  
b) separating the precipitate.
- 5        39. (Original) The process of claim 38, further comprising a step of heating the solution before causing formation of the precipitate.
- 10      40. (Original) The process of claim 39, further comprising a step of cooling the heated solution, whereby cooling causes formation of the precipitate.
- 10      41. (Original) The process of claim 39, wherein the solution is heated to an elevated temperature of from about 50°C to about 60°C.
- 15      42. (Original) The process of claim 41, wherein the solution is heated to an elevated temperature of about 55°C.
- 15      43. (Original) The process of claim 41, wherein the heated solution is cooled to a reduced temperature of from about 10°C to about 20°C.
- 20      44. (Original) The process of claim 43, wherein the reduced temperature is about 16°C.
- 20      45. (Original) The oxcarbazepine chloroform solvate produced by the process of claim 37.
- 25      46. (Currently amended) A process for preparing crystalline oxcarbazepine having a PXRD diffraction pattern substantially as depicted in figure 5 Form A comprising:  
a) providing the oxcarbazepine chloroform solvate of claim 35 Form E,  
b) heating the oxcarbazepine chloroform solvate, and  
c) recovering the oxcarbazepine as Form A.
- 30      47. (Currently amended) The process of claim 46, wherein the oxcarbazepine solvate Form E is heated to an elevated temperature in the range of from about 40°C to about 80°C.

48. (Original) The process of claim 47, wherein the elevated temperature is about 60°C.

49. (Currently amended) A process for preparing crystalline oxcarbazepine having a  
PXRD diffraction pattern substantially as depicted in figure 5 Form A comprising

- 5 a) providing crystalline oxcarbazepine Form B having a PXRD diffraction  
pattern with peaks at about 11.9, 14.4, 20.0, 23.0, 25.1 ± 0.2 degrees  
two-theta,
- b) heating the oxcarbazepine, and
- c) recovering the oxcarbazepine as Form A.

10 50. (Currently amended) The process of claim 49, wherein the oxcarbazepine Form B is  
heated to an elevated temperature in the range of from about 60°C to about 120°C.

15 51. (Original) The process of claim 50, wherein the elevated temperature is about 60°C.

52. (Currently amended) A process for the preparation of crystalline oxcarbazepine Form  
C having a PXRD diffraction pattern with peaks at about 11.7, 21.7, 23.2, 24.4 ± 0.2  
degrees two-theta comprising

- 20 a) providing crystalline oxcarbazepine Form B having a PXRD diffraction  
pattern with peaks at about 11.9, 14.4, 20.0, 23.0, 25.1 ± 0.2 degrees  
two-theta,
- b) maintaining the oxcarbazepine at a temperature in the range of from about 20  
to about 30°C, and
- c) recovering the oxcarbazepine as Form C.

25 53. (Currently amended) A process for preparing crystalline oxcarbazepine having a  
PXRD diffraction pattern substantially as depicted in figure 5 Form A comprising:

a) contacting oxcarbazepine selected from the group consisting of oxcarbazepine  
Form B, oxcarbazepine Form C and oxcarbazepine Form D crystalline  
oxcarbazepine having a PXRD diffraction pattern with peaks at about 11.9,  
14.4, 20.0, 23.0, 25.1 ± 0.2 degrees two-theta, crystalline oxcarbazepine  
having a PXRD diffraction pattern with peaks at about 11.7, 21.7, 23.2, 24.4 ±  
0.2 degrees two-theta, and crystalline oxcarbazepine having a PXRD

- diffraction pattern with peaks at about 11.7, 14.2, 24.3 ± 0.2 degrees two-theta  
with a protic solvent; and
- b) recovering the oxcarbazepine as Form A.
- 5 54. (Currently amended) The process of claim 53, wherein the forms of crystalline  
oxcarbazepine are is suspended in the protic solvent.
55. (Original) The process of claim 53, wherein the protic solvent is selected from the  
group consisting of water and ethanol.
- 10 56. (Currently amended) The process of claim 54, wherein the crystalline oxcarbazepine  
is suspended in the protic solvent from about two hours to about three days.
- 15 57. (Currently amended) The process of claim 56, wherein the crystalline oxcarbazepine  
is suspended for about one day.
58. (Currently amended) A pharmaceutical composition comprising:
- a) oxcarbazepine selected from the group consisting of oxcarbazepine Form B,  
oxcarbazepine Form C, oxcarbazepine Form D and oxcarbazepine Form E crystalline  
oxcarbazepine having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 20.0,  
23.0, 25.1 ± 0.2 degrees two-theta, crystalline oxcarbazepine having a PXRD  
diffraction pattern with peaks at about 11.7, 21.7, 23.2, 24.4 ± 0.2 degrees two-theta,  
crystalline oxcarbazepine having a PXRD diffraction pattern with peaks at about 11.7,  
14.2, 24.3 ± 0.2 degrees two-theta, and crystalline oxcarbazepine chloroform solvate  
having a PXRD diffraction pattern with peaks at about 14.5, 15.0, 18.2, 21.4, 22.9,  
24.0, 25.8, 26.0 ± 0.2 degrees two-theta; and
- b) a pharmaceutically acceptable excipient.
- 20 59. (Currently amended) The pharmaceutical composition of claim 58, wherein the  
composition is mixed with one or more forms of crystalline oxcarbazepine.
- 25 60. (Original) A pharmaceutical dosage form comprising the pharmaceutical composition  
of claim 58.

61. (Original) The pharmaceutical dosage form of claim **60**, wherein the dosage form is a capsule or tablet.
- 5        62. (Original) The pharmaceutical dosage form of claim **61**, wherein the dosage form is a tablet.
63. (Original) The pharmaceutical dosage form of claim **60**, containing a unit dosage of about 150mg to about 600mg oxcarbazepine.
- 10      64. (Original) The pharmaceutical dosage form of claim **63**, containing a unit dosage selected from the group consisting of about 150mg, 300mg and 600mg.
- 15      65. (Original) The pharmaceutical dosage form of claim **60**, wherein the dosage form is an oral suspension.
66. (Original) The pharmaceutical dosage form of claim **65**, wherein the dosage is about 60mg ml<sup>-1</sup>.
- 20      67. (Original) The pharmaceutical dosage form of claim **66**, wherein the dosage is about 300mg ml<sup>-1</sup>.
68. (Original) A method of preventing or reducing the severity of seizures comprising administrating the pharmaceutical composition of claim **58**.
- 25      69. (Original) The method of claim **68**, wherein the seizures are associated with epilepsy.
70. (Original) A method of treating Parkinson's disease comprising administrating the pharmaceutical composition of claim **58**.
- 30      71. (Original) A method of depressing the central nervous system comprising administering the pharmaceutical composition of claim **58**.

72. (Original) The method of claim 71, wherein the central nervous system is depressed by blocking voltage sensitive sodium channels.